

Curriculum Vitae

Name: Dr. Abhay SD Rajput

Designation: Associate Professor and Head

Department: Mass Communication and New Media

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[IITM Personal Webpage](#) | [Google Scholar](#) | [ORCID ID](#) | [Scopus Author ID](#)

Areas of Expertise: Mass Communication of Science (Science Communication), Scientific/Technical Writing, Science Journalism, Research and Publication Ethics

Research Interests:

- Science Communication in Weather and Climate Sciences
- Science Coverage in the Mass Media/Popular Press
- Science Communication and Digital Media
- Science Communication by Scientists
- Public Perceptions and Attitudes toward Science and Scientists

Education:

- PhD (Science Communication), BITS-Pilani, Pilani.
- M.Sc. (Science Communication), Devi Ahilya Vishwavidyalaya, Indore.
- B.Sc. (Botany, Zoology, Chemistry, English), University of Jammu, Jammu.

Positions:

2022-2023: Head, Department of Mass Communication and New Media, Central University of Jammu, Samba (w.e.f. 17 August 2023).

2022-2023: Associate Professor, Department of Mass Communication and New Media, Central University of Jammu, Samba.

2022-2023: Scientist-E, Indian Institute of Tropical Meteorology (IITM), Pune.

2016-2022: Scientist-D, Indian Institute of Tropical Meteorology (IITM), Pune.

2011-2013: Head, Library, Information and Publication Division, Indian Institute of Tropical Meteorology (IITM), Pune.

2011-2013: Program Manager, Information System in Meteorology and Atmospheric Sciences, Indian Institute of Tropical Meteorology (IITM), Pune.

2010-2016: Scientist-C, Indian Institute of Tropical Meteorology (IITM), Pune.

2009-2010: Research Associate (Media/Journalism), Indian Council of Agricultural Research (ICAR), New Delhi

2006-2009: Different science writing, publications, public relations and science broadcasting positions, Jammu and Bengaluru.

Awards/Fellowships:

- Rajat Jayanti Science Communication Award 2008, National Council for S&T Communication (NCSTC), Department of S&T (DST), Govt. of India, New Delhi.
- S. Ramaseshan Science Writing Fellowship 2008, Current Science Association/Indian Academy of Sciences (IASc), Bengaluru.

Publications

Books (Sole Author)

1. Handbook of Science Journalism, *Vigyan Prasar*, October 2018, ISBN: 978-81-7480-292-7, pages 235, <https://vigyanprasar.gov.in/product/handbook-of-science-journalism/>.
2. The Hot Globe: An Anthology of Poems on Global Warming and Climate Change, Amazon Kindle. <https://www.amazon.com/The-Hot-Globe-ebook/dp/B008J9DPWE>.
3. Aiming High: An Anthology of Poems on Success and Winning, Amazon Kindle. <https://www.amazon.com/gp/product/B008CLZMNO>.

Articles Published in Peer Reviewed Journals (Sole Author)

1. Importance of communicating science to the general public: an empirical study of top Indian scientists, *Weather*, 78 (2), February 2023, 50-55, <https://doi.org/10.1002/wea.4214>. (Co-author: S. Sharma)
2. Top Indian scientists as public communicators: a survey of their perceptions, attitudes and communication behaviors, *Scientometrics*, 127, 3167-3192, June 2022, <https://doi.org/10.1007/s11192-022-04405-7>. (Co-author: S. Sharma)
3. An exploratory study of Indian scientists' perceptions of their roles and responsibilities in science communication, *African Journal of Science, Technology, Innovation and Development*, Online, 3 October 2022, <https://doi.org/10.1080/20421338.2022.2124682>. (Co-author: S. Sharma)
4. Scientific writing: an analysis of Pune-based climate scientists' perceptions and training needs. *Weather*, 77(3), March 2022, 99-103, <https://doi.org/10.1002/wea.3967>.
5. India: draft science policy calls public engagement, *Nature*, 592, 1 April 2021, 26 (Co-author: S. Sharma).
6. India's Scientific Social Responsibility Policy, *Current Science*, Vol. 117, No. 10, 25 November 2019, 1562.
7. India aims for national policy on scientific social responsibility, *Nature*, 574, 29 October 2019, 634.
8. Scientific Writing: The Predicament of Weather and Climate Scientists in India, *Bulletin of the American Meteorological Society (BAMS)*, 2019, **100**, 399-402.
9. India's Ph.D. scholar outreach requirement, *Science*, 2018, **359**, 1343.
10. Earth and planetary sciences in SJR 2014: A performance analysis, *Mausam*, 2018, 69, 473-478.
11. Pratyush: India's fastest supercomputer for weather and climate prediction, *Current Science*, 2018, **114**, 1803.
12. Science communication as an academic discipline: an Indian perspective, *Current Science*, 2017, **113**, 2262- 2267.
13. Effective Science Communication: Evaluation and Appropriation of Basic Principles, *Indian Journal of Science Communication*, 2007, **6 (1)**, 17-23.
14. Presenting Science to the Public: Role of Scientists, *Indian Journal of Science Communication*, 2009, **8 (1)**, 16-18.
15. Science Communications and its Challenges in India, *Science Communicator*, 2014, **5 (1&2)**, 11-21.
16. Enzymes and biotechnology for cleaner leather processing, *Current Science*, 2009, **96**, 1439-1440.
17. Now banana for making greaseproof paper, *Current Science*, 2009, **96**, 332.
18. Invisibility cloaks, *Current Science*, 2009, **96**, 638.
19. Asia's first viviparous amphibian discovered in India, *Current Science*, 2009, **96**, 755.
20. Project to save Snow Leopard launched, *Current Science*, 2009, **96**, 755-756.

21. New understanding may help fight drug-resistant bacteria, *Current Science*, 2009, **96**, 881.
22. How Technology Advances And Man Decays, *Current Science*, 2008, **95**, 434.
23. The Great Indian Bustard (*Ardeotis Nigriceps*) On the Verge of Extinction, *Current Science*, 2008, **95**, 1108-1109.
24. Science communication: careers and courses in India, *Current Science*, 2008, **95**, 1513.
25. Celebrating the International Year of Astronomy 2009, *Current Science*, 2008, **95**, 300.
26. Access to science journals: Pros and cons, *Current Science*, 2008, **95**, 703.
27. RRL Jammu renamed as Indian Institute of Integrative Medicine, *Current Science*, 2008, **95**, 1113.
28. IUCN's 2008 Sabin Award for Amphibian Conservation, *Current Science*, 2008, **95**, 1113.
29. The Champalimaud Vision Award 2008, *Current Science*, 2008, **95**, 1113.
30. Open source drug discovery launched to combat infectious diseases, *Current Science*, 2008, **95**, 1516.
31. India bags two International Academy of Astronautics Awards 2008, *Current Science*, 2008, **95**, 1516.
32. CSIR Award for S&T Innovations for Rural Development 2008, *Current Science*, 2008, **95**, 1516.
33. Pluto is now a plutoid – a new class of planetary objects, *Current Science*, 2008, **95**, 1388.
34. Wellcome Trust and DBT to boost biomedical research in India, *Current Science*, 2008, **95**, 1388.
35. Large Hadron Collider: Role of Jammu University, *Current Science*, 2008, **95**, 1659.
36. IIIM celebrates the CSIR Foundation Day, *Current Science*, 2008, **95**, 1660.
37. RT-PCR technique for rapid detection of CHIK virus, *Current Science*, 2009, **96**, 14-15.
38. 2008 Shanti Swarup Bhatnagar prizes, *Current Science*, 2009, **96**, 15.
39. CSIR Young Scientist and CSIR Technology Awards 2008, *Current Science*, 2009, **96**, 15.
40. Review of the book *Prakriti Ki Prayogshala* published by Vigyan Prasar, *Current Science*, 2008, **95**, 1628.

Invited Talks/Lectures and Session Chairing

- **Invited as a Resource Person** at IIT Kanpur: Organized a Two-Day Orientation Programme (Lecture-cum-Workshop) on 'Career in Science Communication' at IIT Kanpur during 16-17 January 2010.
- **Invited as a Resource Person** in the First World Conference on Science Fiction Studies in India, Yashwantrao Mohite College, Pune (Bharati Vidyapeeth Deemed University), 01-02 February 2013 and gave an invited talk on 'Science Poetry as a Genre of Science Communication'.
- **Invited as a Panel Member** to judge a project competition of UG/PG students in 'Tech For Seva' Conference organized by Vigyan Bharati, Pune and Seva Sahayog, Pune at the Cummins College, Pune, 28-29 September 2013.
- **Invited Talk (as discussant)** in the 2-day Round Table Conference on 'Challenges for Science Film Making in India', Thiruvananthapuram, Kerala during 19-20 July 2014.
- **Chaired the Scientific Session III: 'Institutional Strategies'** in the 14th Indian Science Communication Congress (ISCC-2014), INSA, New Delhi 110002, 26-28 December 2014.
- **Invited as Resource Person/Expert and gave an invited workshop** on Science Film Making during the 5th National Science Film Festival (NSFF) during 04-08 February 2015 in Lucknow.
- **Invited Speaker** at the UGC sponsored National level conference on 'Ethical Issues in Scientific Writing' during 03-04 September 2015 at Maharani's Science College for women (Department of Higher Education, Government of Karnataka), Bengaluru.

- **Invited** to attend a meeting-cum-brainstorming workshop for Radio serial “Sustainable Development” organized by Vigyan Prasar (GoI) and Karnataka State Council for S&T, Bengaluru during 3-4 November 2016 in Bengaluru.
- **Invited talk** at Science Communicators’ Meet at Indian Science Congress -2017, Tirupati 03-07 January 2017.
- **Invited as a Distinguished Expert** in Science Communication for the Round Table Meet on Mass Communication at the India International Science Festival (IISF) at NIOT, Chennai during 13-16 October 2017. As an expert, contributed to the plans for promoting science communication in the final summing up session chaired by Dr. VK Saraswat, Science Member, NITI Aayog.
- **सूचना का अधिकार: प्रत्येक नागरिक का हथियार** (Invited talk), Hindi Workshop, IITM, Pune, 27.06.2017.
- **Invited as a Distinguished Guest** at the 18th Indian Science Communication Congress (ISCC-2018) held in New Delhi during 20-21 December 2018.
- **Invited Talk** at the Earth System Sciences Section, 106th Indian Science Congress, Lovely Professional University, Jalandhar, 03-07 January 2019.
- **Delivered the 24th Prof. R. Ananthkrishnan Colloquium talk** at IITM, Pune on India’s Ph.D. scholar outreach requirement, 11 September 2019 (Invited Talk).
- **Invited Talk** at the One Day National Multidisciplinary e-Conference on “Research in Science and Technology for Sustainable Development” organized by Rajarshree Shahu Science College, Chandur Railway, Dist. Amravati (MS) in collaboration with Indian Science Congress Association, Amravati Chapter, 23rd March 2021.
- **Invited as Keynote Speaker** and delivered the inaugural talk under the Lecture Series on ‘Intellectual Property Rights’ organised by Industry Academia Partnership Cell (IAPC) and Department of Botany, Jammu University, Jammu on 21 October 2021.
- **Invited Talk** at Department of Chemistry, Jammu University, Jammu on 21 October 2021.

National/International Conferences (Participation & Paper Presented)

4th National Science Communication Congress (NSCC), Gwalior, 20-24 December 2004

- *Fundamental principles of Science Communication (paper)*

6th International Conference on Hands-on Science (HSCI 2009), Science City, Ahmedabad, 27-31 October 2009

- *Hands-on Science: Communication Through Multi-Media and ICT Tools (paper)*

11th International Conference on Public Communication of Science and Technology (PCST) 2010, NASC Complex, New Delhi, 06-10 December 2010

- *Why Communicate Research to the Public? (paper)*

International Conference on Science Communication for Scientific Temper, NASC Complex, New Delhi, 10-12 January 2012

- *Commonizing Scientific Temper: Challenges and opportunities in India (paper)*

National level two-day workshop on Science Communication in Hindi through Digital Media, New Delhi, 28-29 March 2012

- कविता के द्वारा डिजिटल माध्यम से विज्ञान संचार (Talk)

First World Conference on Science Fiction Studies in India, Yashwantrao Mohite College, Pune (Bharati Vidyapeeth Deemed University), 01-02 February 2013

- *Science Poetry as a Genre of Science Communication*

2-day Round Table Conference on ‘Challenges for Science Film Making in India’,
Thiruvananthapuram, Kerala during 19-20 July 2014.

- *Science in Action: Challenges in Telling a Dynamic Story through Visuals*

14th Indian Science Communication Congress (ISCC-2014), INSA, New Delhi 110002, 26-28 December 2014

- *Towards Good Governance of Science: Need to Rationalize Science Communication Strategies (Presentation in Scientific Session IV: Policy Issues)*
- *Are Indian Scientists Ready to Connect with the Masses through the Media? (Presentation in Scientific Session V: Scientists as Communicators)*

Workshop on Science Film Making & 5th National Science Film Festival (NSFF), 04-08 February 2015 in Lucknow

- *Science Communication through Film: How to Tell a Dynamic Story*

UGC sponsored National level conference on ‘Ethical Issues in Scientific Writing’ during 03-04 September 2015 at Maharani’s Science College for women (Department of Higher Education, Government of Karnataka), Bengaluru.

- *The Other Side of Science: Towards Better Science Writing/Communication Skills*

Science Communicators’ Meet at Indian Science Congress -2017, Tirupati 03-07 January 2017.

- *The Other Side of Science: Towards Better Science Communication Skills*

17th Indian Science Communication Congress (ISCC) on the theme “Communicating India’s Scientific Wisdom: Changing Paradigms” at Indian Institute of Mass Communication (IIMC), New Delhi during 21-22 December 2017.

- *Why ancient Indian wisdom is missing from the scientific discourse? The importance of going back to move forward.*

Round Table Meet on Mass Communication, India International Science Festival (IISF) at NIOT, Chennai during 13-16 October 2017.

- *Weather and climate communication: What Indian scientists think about their scientific writing skills.*
- *Panel discussion on ‘science communication – the way forward.*

National Workshop on the Science, Technology and Innovation Policy: Optimising Communication & Information Research during 23-25 January 2018 at NASC Complex, New Delhi.

- *Suggestions/recommendations for revising the STI Policy.*

18th Indian Science Communication Congress (ISCC-2018), New Delhi, 20-21 December 2018.

- *Science Communication and Fake News*

106th Indian Science Congress, Lovely Professional University, Jalandhar, 03-07 January 2019.

- *Scientific Writing in Weather and Climate Sciences: Capacity Building for Taking Knowledge to the Unreached*

Vigyanika -- International Science Literature Fest, India International Science Festival (IISF-2019), Kolkata, 05-08 November 2019.

- *Scientists and Science Communication in India: A Policy Perspective*

20th Indian Science Communication Congress (ISCC-2020), Web-conference, 20 December 2020.

- *How important is communicating science: A survey of top Indian scientists*

One Day National Multidisciplinary e-Conference on “Research in Science and Technology for Sustainable Development” organized by Rajarshree Shahu Science College, Chandur Railway, Dist. Amravati (MS) in collaboration with Indian Science Congress Association, Amravati Chapter, 23rd March 2021.

- *Toward integrating science communication training in STEM education (Invited Talk)*

Delivered the inaugural invited talk under the **Lecture Series on ‘Intellectual Property Rights’** organised by Industry Academia Partnership Cell (IAPC) and Department of Botany, Jammu University, Jammu on 21 October 2021. The Vice-Chancellor Dr. Manoj K. Dhar presided over the event.

- *Invited talk (Keynote Speaker): Science Communication, IPRs and Ethics: Where do we lack?*

Department of Chemistry, Jammu University, Jammu on 21 October 2021.

- *Science Communication: Bridging the Science-Society Divide (Invited Talk)*

Future of Science Communication Conference, 24-25 June 2021, Berlin, Germany organised by Wissenschaft im Dialog, the organisation for science communication in Germany, and ALLEA, the European Federation of Academies of Sciences and Humanities. Presented paper online in the Lightning Talk Session on Innovative Approaches to Science-Society Interactions on 25 June 2021.

- *A Survey of Factors Affecting Indian Scientists’ Engagement in Science Communication.*

Participation in Workshops/Seminars/Expos/Conferences/Outreach Activities

- **National Science Day exhibition at Giant Metrewave Radio Telescope (GMRT), TIFR, Khodad, Narayangaon**, 28 Feb. - 1 March 2010.
- **Seminar on the Right to Information Act 2005** organized by ISTM, DoPT, New Delhi, 25 June 2010.
- **Bangaluru Space Expo 2010 (BSX2010)**, Bangaluru International Exhibition Centre (BIEC), Tumkur Road, Bangaluru, 25-28 August 2010.
- **National Workshop on Science Broadcasting**, organised by Vigyan Prasar at IIMC, New Delhi, 02-06 May 2011.
- **International Conference on the Role of Communication Media in Creating Scientific Temper and Awareness**, NASC Complex, New Delhi, 29-30 May 2012.
- **National Science Day exhibition at Giant Metrewave Radio Telescope (GMRT), TIFR, Khodad, Narayangaon**, 28 Feb. - 1 March 2013.
- **‘Tech For Seva’ Conference** organized by Vigyan Bharati, Pune and Seva Sahayog, Pune at the Cummins College, Pune, 28-29 September 2013. *(Invited as a Panel Member to judge a project competition of UG/PG students)*
- **Workshop on Science Film Making and Rashtriya Vigyan Chalachitra Mela (RVCM)** organized by Vigyan Prasar (DST)/NCSM, Kolkata at Vishveshwarya Science Museum, Bengaluru, 29 January – 2 February 2014. *(The participation was on special invitation from the Vigyan Prasar.)*
- **101st Indian Science Congress Expo** (common stall of the MoES) at the University of Jammu, Jammu, 3-7 February 2014.

- **INTROMET-2014** common exhibition stall of the ESSO, MoES at SRM University, Chennai, 21-24 February 2014.
- **MoES Exhibition at India International Trade Fair 2015 (IITF-2015)**, Pragati Maidan, New Delhi during 14-27 November 2015 (*Participated during 23-27 Nov 2015*).
- **National Children Science Congress (NCSC-2016)** during 27-31 December 2016 in Baramati.
- **India International Science Festival (IISF-2016)** held at National Physical Laboratory, Pusa, New Delhi during 7-11 December 2016.
- **Meeting-cum-brainstorming workshop for Radio serial “Sustainable Development”** organized by Vigyan Prasar (GoI) and Karnataka State Council for S&T, Bengaluru during 3-4 November 2016 in Bengaluru.
- **Indian Science Congress -2017**, Tirupati 03-07 January 2017 and the MoES pavilion at the Pride of India Expo during ISC.
- **MoES pavilion at the 5th Bharatiya Vigyan Sammelan 2017 (BVS-2017) Expo**, FC College, Pune during 11-14 May 2017
- **MoES pavilion at the Science Expo at India International Science Festival (IISF)** at NIOT, Chennai during 13-16 October 2017.
- **MoES pavilion at the Science Exhibition at the Parliament House**, New Delhi during 27 July – 02 August 2017.
- Seminar on ‘**Learn from a Cell Press Editor: How to publish in and optimize resources for ground breaking journals**’ by Dr. Steven W Cranford at Cell Press, Elsevier Researcher Academy On Campus, 25 February 2021.
- **Vigyan Sarvatra Pujyate Mega Science Expo**, New Delhi, 22-28 February 2022.

Membership of Professional/Scientific Bodies

- Life Member, Indian Science Congress Association (ISCA), Kolkata.
- Life Member, Indian Meteorological Society (IMS), New Delhi.

(Abhay SD Rajput)